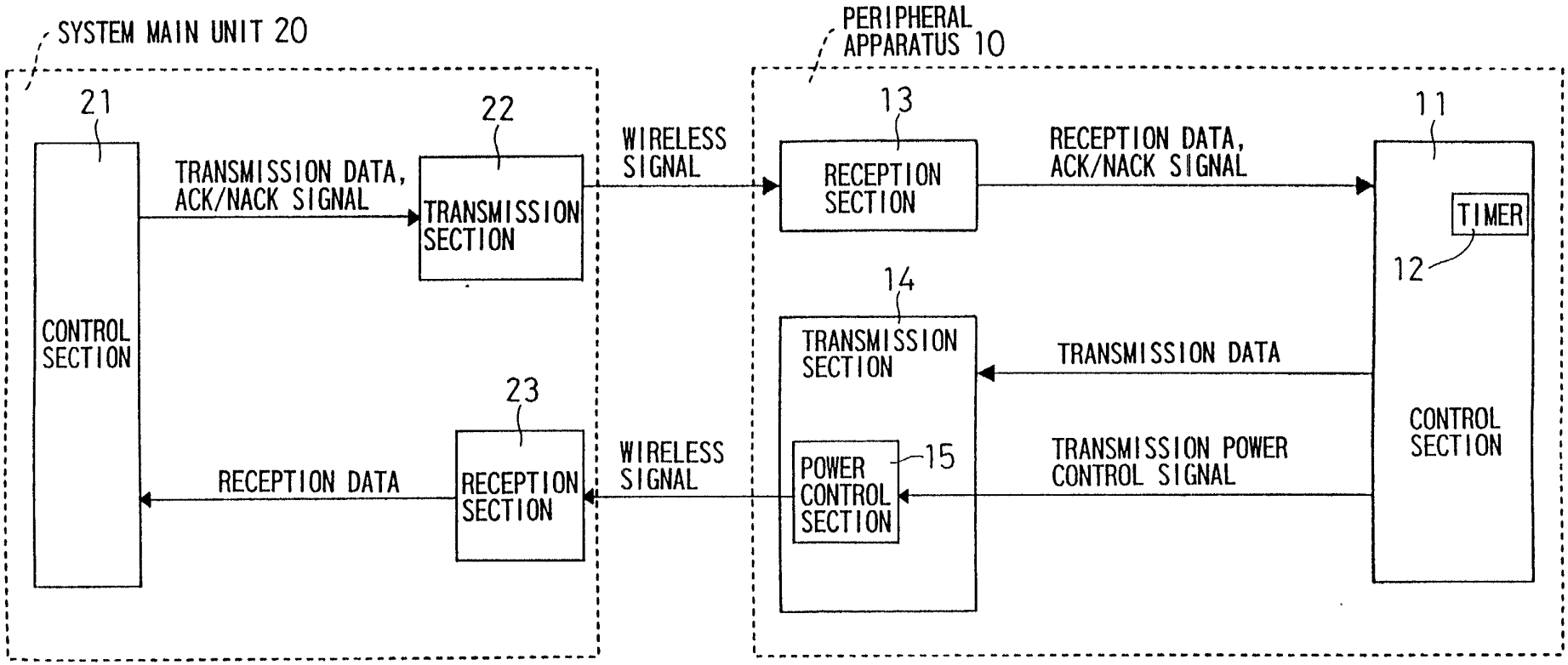
FIG. 1



WIRELESS COMMUNICATION SYSTEM 1

FIG. 2

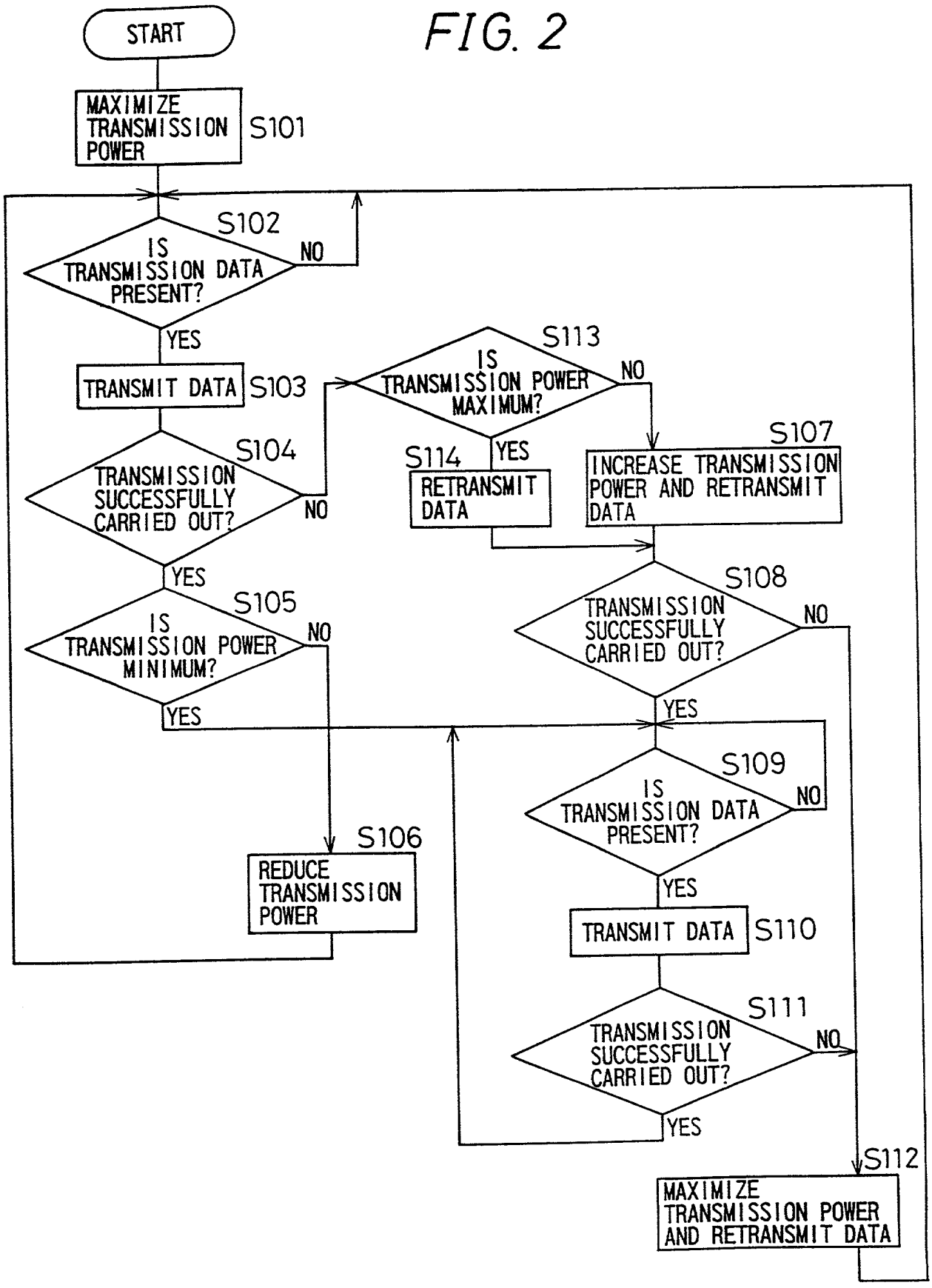

START
MAXIMIZE TRANSMISSION POWER
S101
S102
IS TRANSMISSION DATA PRESENT?
NO
YES
TRANSMIT DATA
S103
S104
TRANSMISSION SUCCESSFULLY CARRIED OUT?
NO
YES
S105
IS TRANSMISSION POWER MINIMUM?
NO
YES
S106
REDUCE TRANSMISSION POWER
S113
IS TRANSMISSION POWER MAXIMUM?
NO
YES
S114
RETRANSMIT DATA
S107
INCREASE TRANSMISSION POWER AND RETRANSMIT DATA
S108
TRANSMISSION SUCCESSFULLY CARRIED OUT?
NO
YES
S109
IS TRANSMISSION DATA PRESENT?
NO
YES
TRANSMIT DATA
S110
S111
TRANSMISSION SUCCESSFULLY CARRIED OUT?
NO
YES
S112
MAXIMIZE TRANSMISSION POWER AND RETRANSMIT DATA

FIG. 3

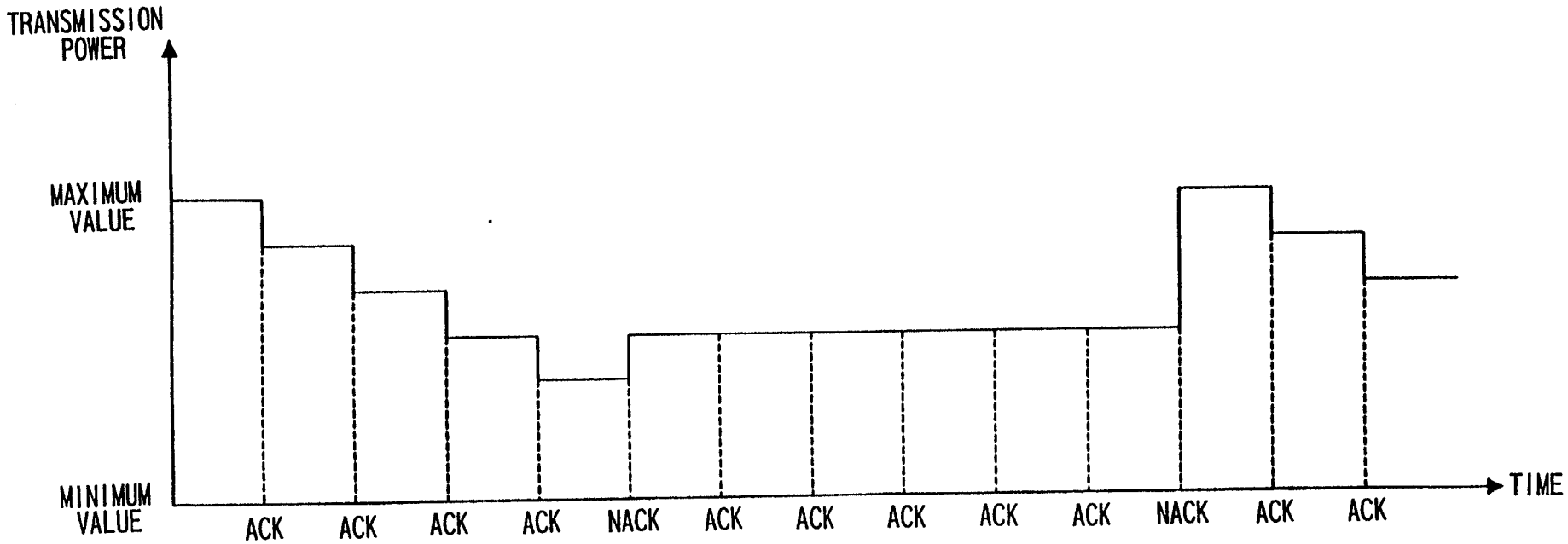

TRANSMISSION POWER
MAXIMUM VALUE
MINIMUM VALUE
TIME
ACK
ACK
ACK
ACK
NACK
ACK
ACK
ACK
ACK
ACK
NACK
ACK
ACK

FIG. 4

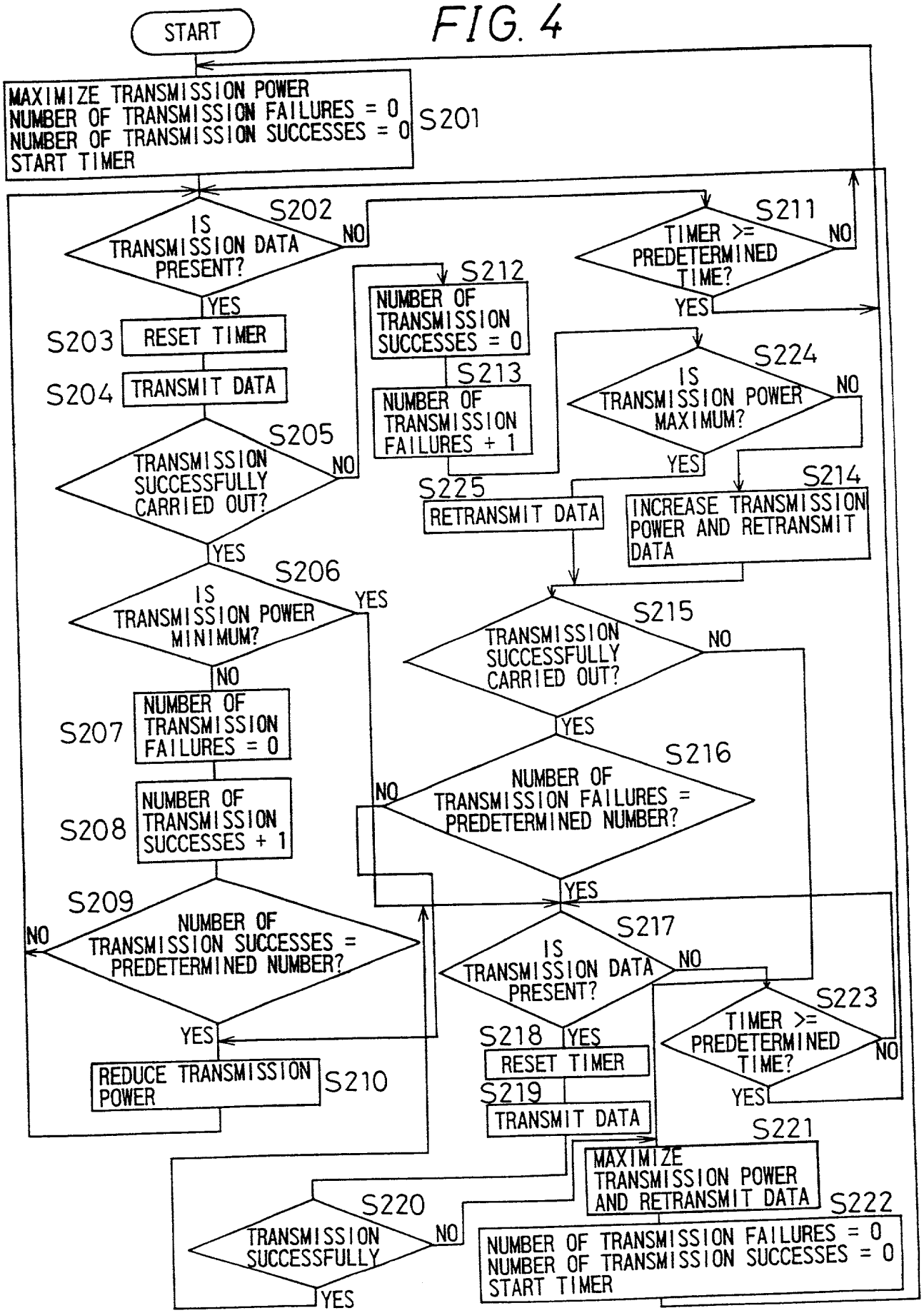

START
MAXIMIZE TRANSMISSION POWER
NUMBER OF TRANSMISSION FAILURES = 0
NUMBER OF TRANSMISSION SUCCESSES = 0
START TIMER
S201
IS TRANSMISSION DATA PRESENT?
S202
NO
YES
RESET TIMER
S203
TRANSMIT DATA
S204
TRANSMISSION SUCCESSFULLY CARRIED OUT?
S205
NO
YES
IS TRANSMISSION POWER MINIMUM?
S206
YES
NO
NUMBER OF TRANSMISSION FAILURES = 0
S207
NUMBER OF TRANSMISSION SUCCESSES + 1
S208
NUMBER OF TRANSMISSION SUCCESSES = PREDETERMINED NUMBER?
S209
NO
YES
REDUCE TRANSMISSION POWER
S210
NUMBER OF TRANSMISSION SUCCESSES = 0
S212
NUMBER OF TRANSMISSION FAILURES + 1
S213
RETRANSMIT DATA
S225
TIMER >= PREDETERMINED TIME?
S211
NO
YES
IS TRANSMISSION POWER MAXIMUM?
S224
NO
YES
INCREASE TRANSMISSION POWER AND RETRANSMIT DATA
S214
TRANSMISSION SUCCESSFULLY CARRIED OUT?
S215
NO
YES
NUMBER OF TRANSMISSION FAILURES = PREDETERMINED NUMBER?
S216
NO
YES
IS TRANSMISSION DATA PRESENT?
S217
NO
YES
RESET TIMER
S218
TRANSMIT DATA
S219
TIMER >= PREDETERMINED TIME?
S223
NO
YES
MAXIMIZE TRANSMISSION POWER AND RETRANSMIT DATA
S221
TRANSMISSION SUCCESSFULLY
S220
NO
YES
NUMBER OF TRANSMISSION FAILURES = 0
NUMBER OF TRANSMISSION SUCCESSES = 0
START TIMER
S222

FIG. 5

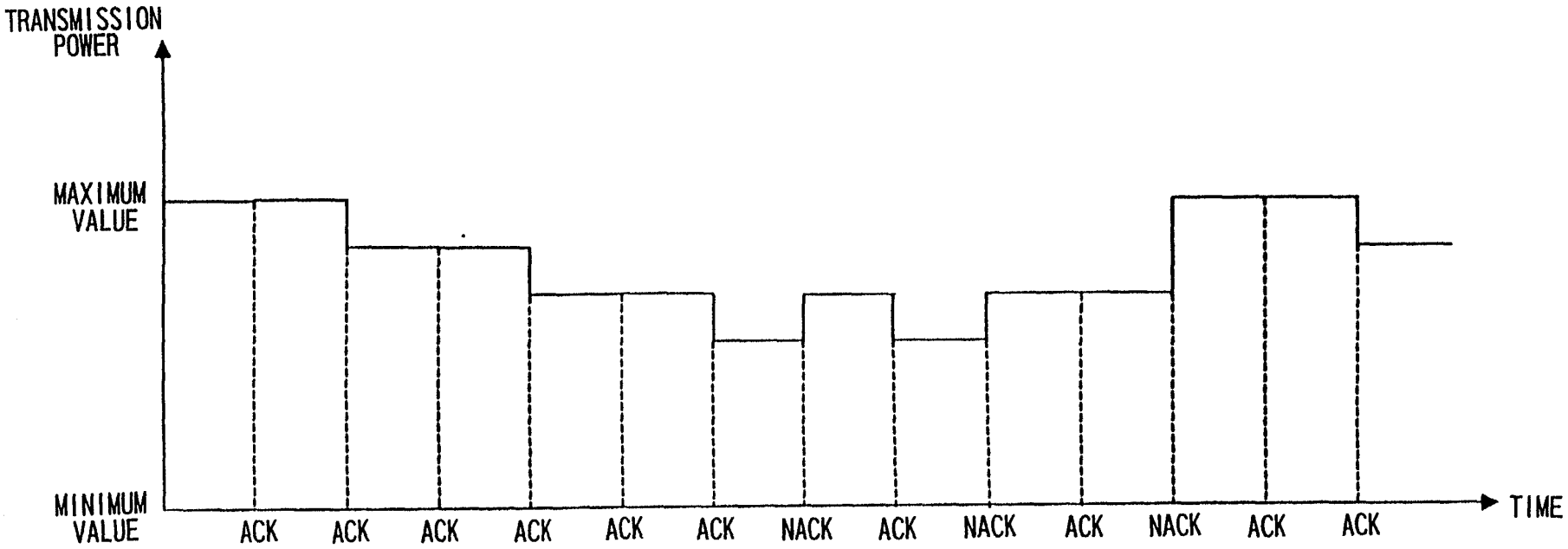

TRANSMISSION POWER
MAXIMUM VALUE
MINIMUM VALUE
ACK
ACK
ACK
ACK
ACK
ACK
NACK
ACK
NACK
ACK
NACK
ACK
ACK
TIME

FIG. 6

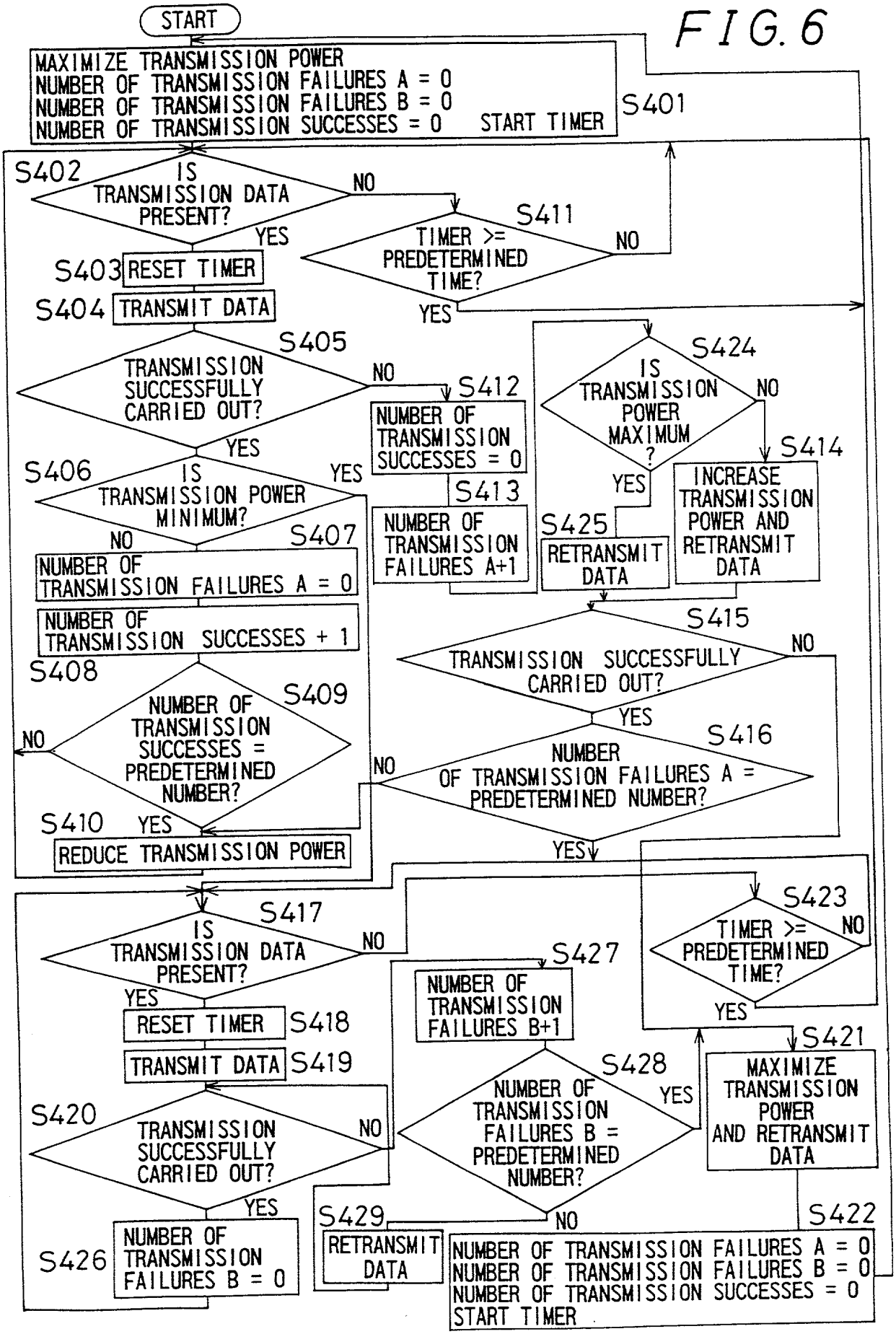

START
MAXIMIZE TRANSMISSION POWER
NUMBER OF TRANSMISSION FAILURES A = 0
NUMBER OF TRANSMISSION FAILURES B = 0
NUMBER OF TRANSMISSION SUCCESSES = 0
START TIMER
S401
S402
IS TRANSMISSION DATA PRESENT?
NO
YES
S411
TIMER >= PREDETERMINED TIME?
NO
YES
S403
RESET TIMER
S404
TRANSMIT DATA
S405
TRANSMISSION SUCCESSFULLY CARRIED OUT?
NO
YES
S412
NUMBER OF TRANSMISSION SUCCESSES = 0
S413
NUMBER OF TRANSMISSION FAILURES A+1
S406
IS TRANSMISSION POWER MINIMUM?
YES
NO
S407
NUMBER OF TRANSMISSION FAILURES A = 0
NUMBER OF TRANSMISSION SUCCESSES + 1
S408
S409
NUMBER OF TRANSMISSION SUCCESSES = PREDETERMINED NUMBER?
NO
S410
YES
REDUCE TRANSMISSION POWER
S424
IS TRANSMISSION POWER MAXIMUM ?
NO
YES
S414
INCREASE TRANSMISSION POWER AND RETRANSMIT DATA
S425
RETRANSMIT DATA
S415
TRANSMISSION SUCCESSFULLY CARRIED OUT?
NO
YES
S416
NUMBER OF TRANSMISSION FAILURES A = PREDETERMINED NUMBER?
NO
YES
S417
IS TRANSMISSION DATA PRESENT?
NO
YES
S418
RESET TIMER
S419
TRANSMIT DATA
S420
TRANSMISSION SUCCESSFULLY CARRIED OUT?
NO
YES
S426
NUMBER OF TRANSMISSION FAILURES B = 0
S427
NUMBER OF TRANSMISSION FAILURES B+1
S428
NUMBER OF TRANSMISSION FAILURES B = PREDETERMINED NUMBER?
YES
NO
S429
RETRANSMIT DATA
S423
TIMER >= PREDETERMINED TIME?
NO
YES
S421
MAXIMIZE TRANSMISSION POWER AND RETRANSMIT DATA
S422
NUMBER OF TRANSMISSION FAILURES A = 0
NUMBER OF TRANSMISSION FAILURES B = 0
NUMBER OF TRANSMISSION SUCCESSES = 0
START TIMER

FIG. 7

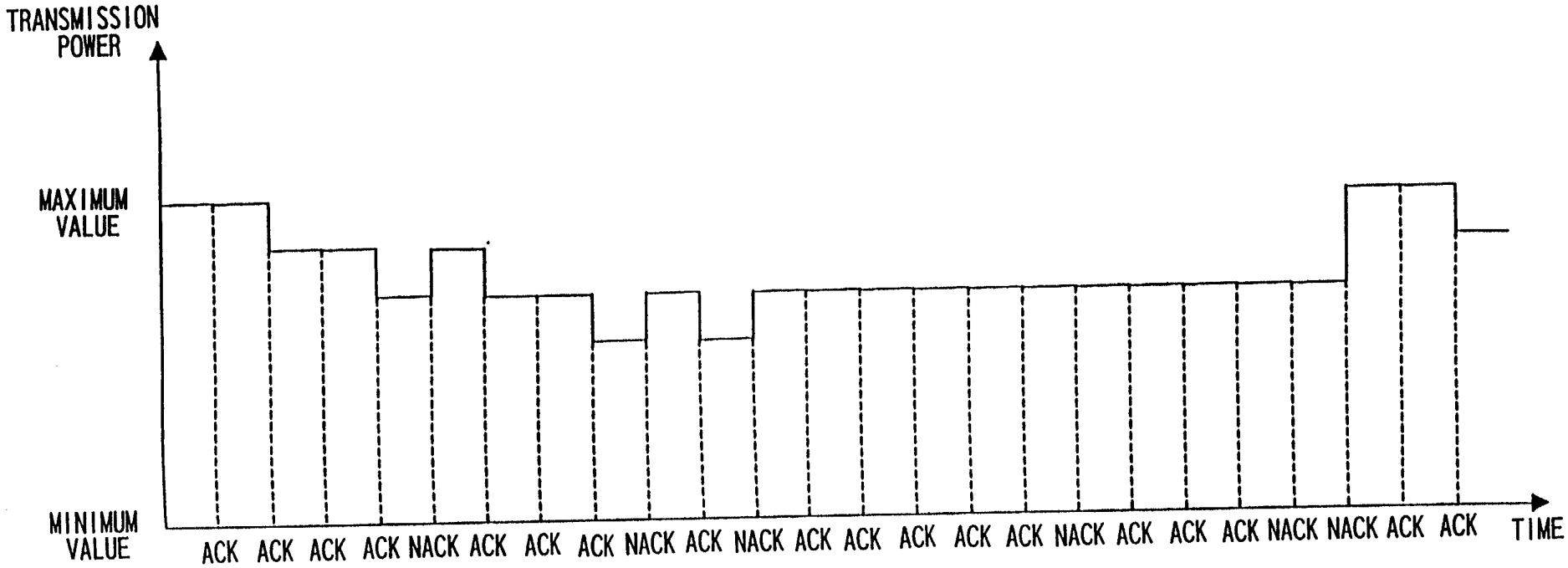

TRANSMISSION POWER
MAXIMUM VALUE
MINIMUM VALUE
ACK ACK ACK ACK NACK ACK ACK ACK NACK ACK NACK ACK ACK ACK ACK ACK NACK ACK ACK ACK NACK NACK ACK ACK
TIME

FIG. 8 Prior Art

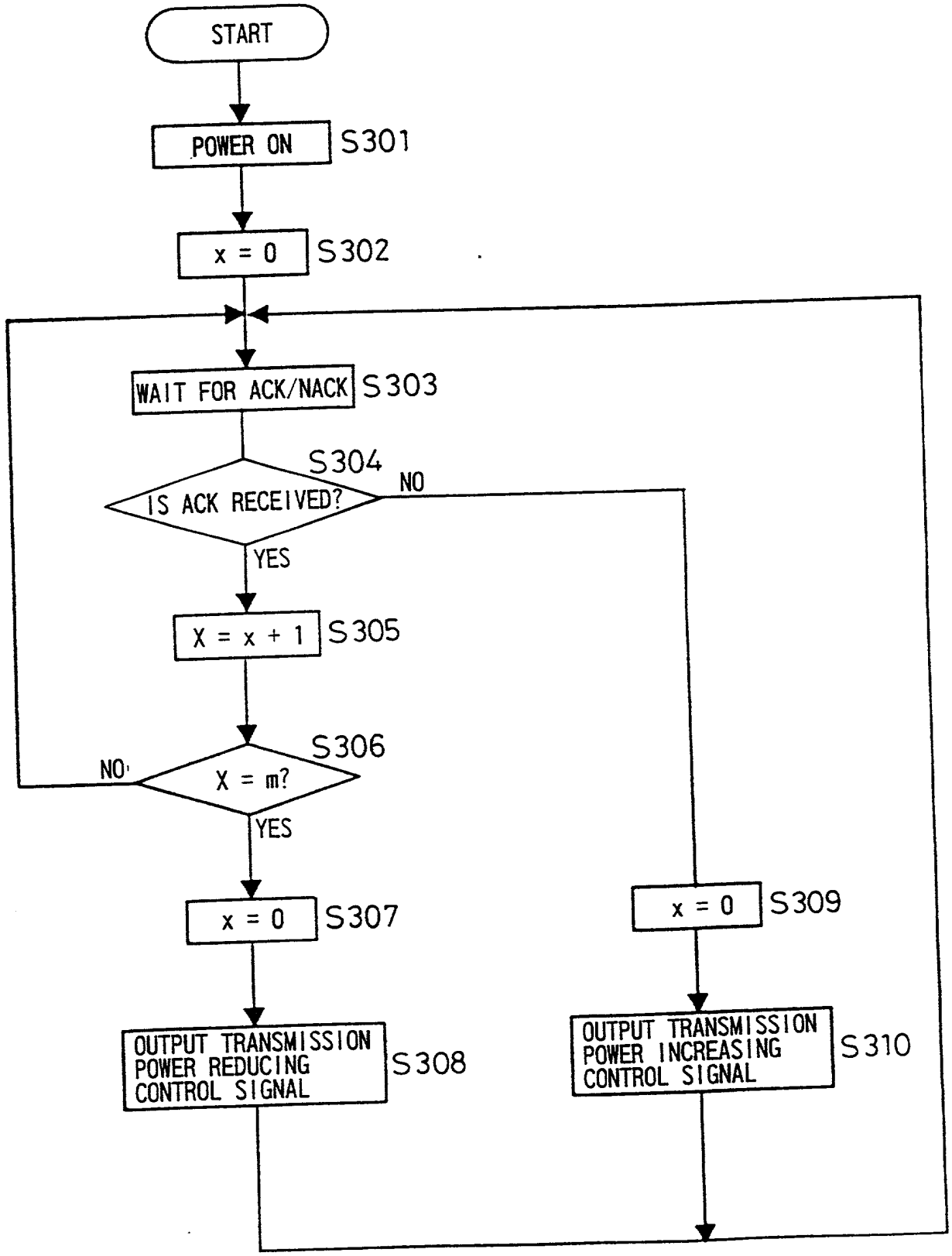


FIG. 9 Prior Art

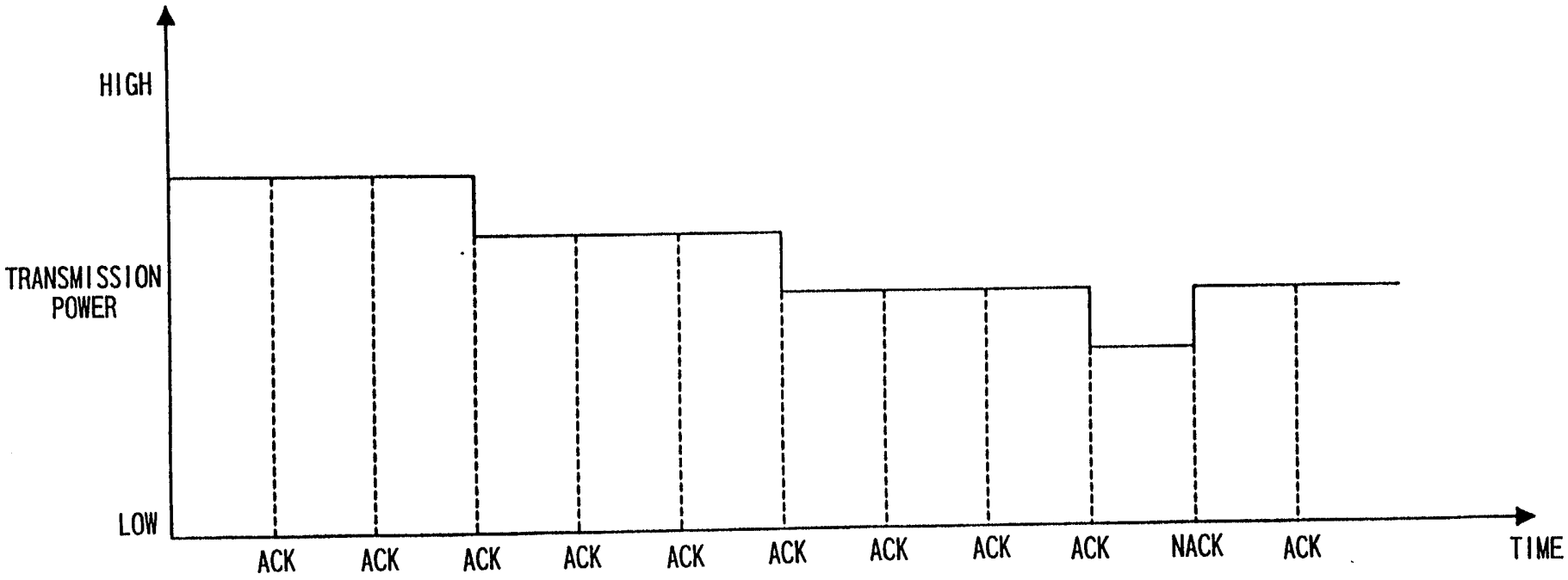


FIG. 10 Prior Art